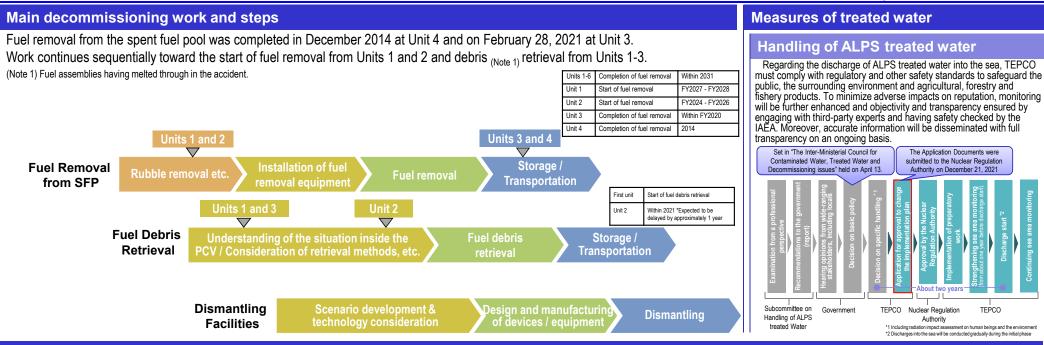
Outline of Decommissioning, Contaminated Water and Treated Water Management Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water Management



Contaminated water management - triple-pronged efforts -

(1) Efforts to promote contaminated water management based on the three basic policies (1) "Remove" the source of water contamination (2) "Redirect" fresh water from contaminated areas

3 "Retain" contaminated water from leakage

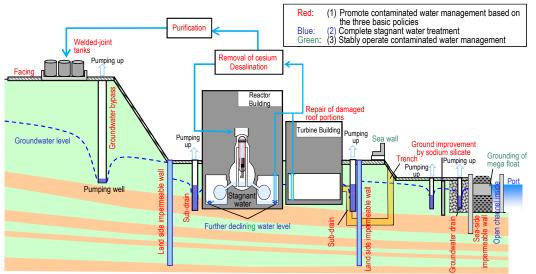
- Strontium-reduced water from other equipment is being re-treated in the Advanced Liquid Processing System (ALPS: multi-nuclide removal equipment) and stored in welded-joint tanks.
- Multi-layered contaminated water management measures, including land-side impermeable walls and sub-drains, have stabilized the groundwater at a low level and the increased contaminated water generated during rainfall is being suppressed by repairing damaged portions of building roofs, facing onsite, etc. Through these measures, the generation of contaminated water was reduced from approx. 540 m³/day (in May 2014) to approx. 130 m³/day (in FY2021).
- Measures continue to further suppress the generation of contaminated water to 100 m³/day or less within 2025.

(2) Efforts to complete stagnant water treatment

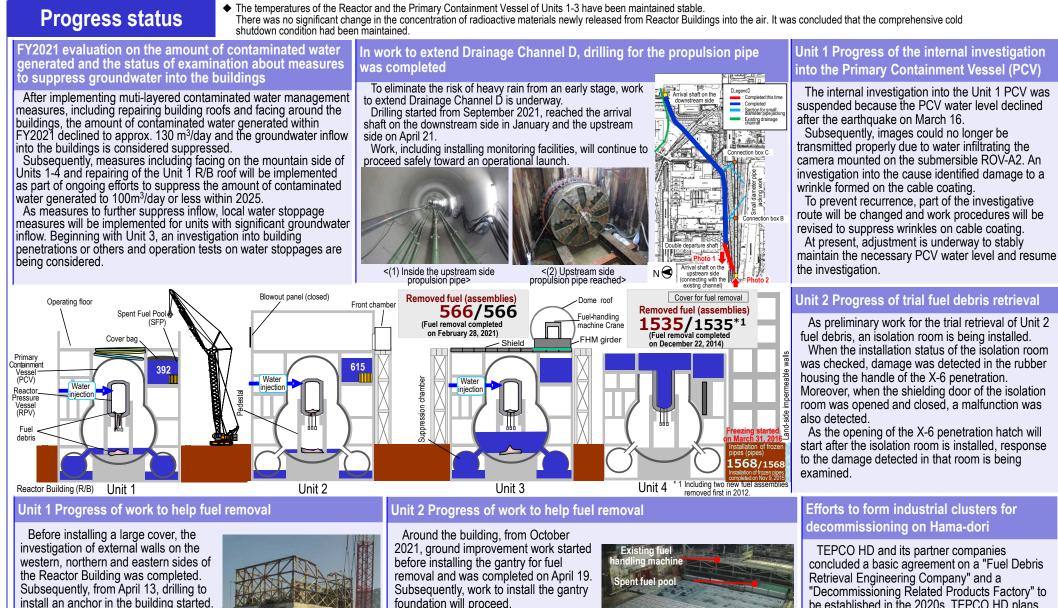
- To reduce the stagnant water levels in buildings as planned, work to install additional stagnant water transfer equipment is underway. At present, the floor surface exposure condition can be maintained except for the Unit 1-3 Reactor Buildings, Process Main Building and the High-Temperature Incinerator Building.
- In 2020, treatment of stagnant water in buildings was completed, except for the Unit 1-3 Reactor Buildings, Process Main Building and High-Temperature Incinerator Building. For Reactor Buildings, the amount of stagnant water there will be reduced to about half the amount at the end of 2020 during the period FY2022-2024.
- For zeolite sandbags on the basement floors of the Process Main Building and High-Temperature Incinerator Building, measures to reduce the radiation dose are being examined with stabilization in mind.

(3) Efforts to stably operate contaminated water management

 Various measures are underway to prepare for tsunamis. For heavy rain, sandbags are being installed to suppress direct inflow into buildings while work to close openings in buildings and install sea walls to enhance drainage channels and other measures is being implemented as planned.



Progress Status and Future Challenges of the Mid-and-Long-Term Roadmap toward Decommissioning of TEPCO Holdings Fukushima Daiichi Nuclear Power Station (Outline)



To reduce the exposure risk of workers, work proceeds carefully using a remotely-operated anchor drilling equipment and suctioning dust.

Moreover, during work, the dust concentration is monitored by on-site dust monitors to check for any significant fluctuation.



<On-site status (from northwest)> (photo: April 12, 2022)

foundation will proceed.

Outside the site, work to prepare a vard for ground assembly of steel frames was completed on March 18. Before the ground assembly from July, preliminary work will proceed.

Inside the building, work to install shielding over the reactor is underway and will be completed by the end of May.

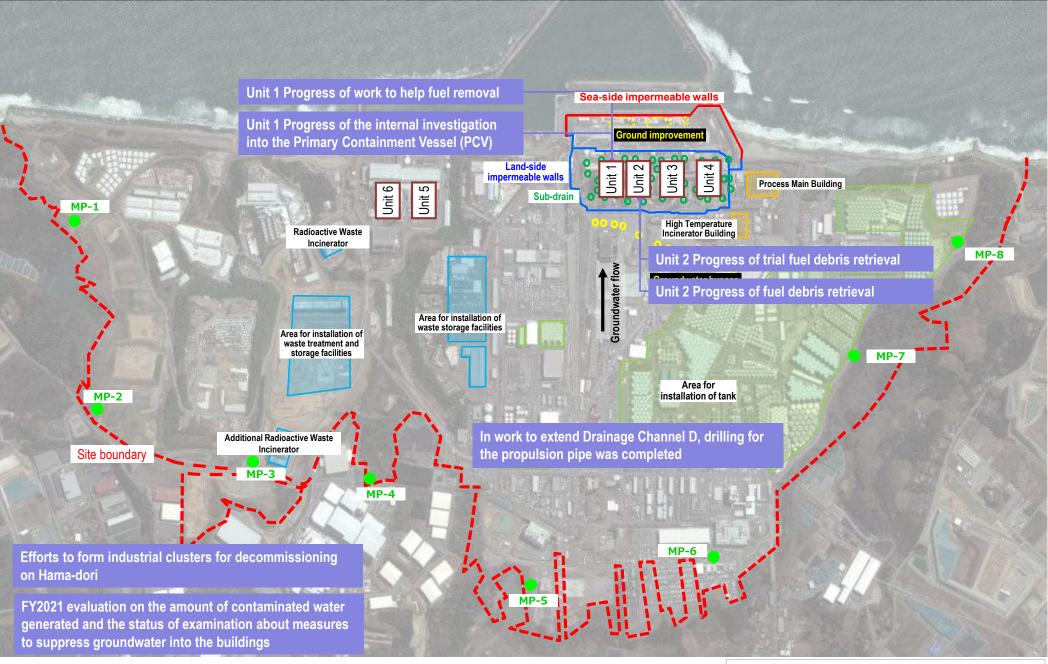


<Installation of shielding>

be established in the 2020s. TEPCO HD plans to integrate the development, manufacturing, operation, storage, and recycling necessary for the decommissioning on Hama-dori to achieve both reconstruction and decommissioning.

By establishing various decommissioningrelated facilities on an ongoing basis, TEPCO HD is committed to helping promote the economy, create employment, develop human resources, and create property in Hama-dori.

Major initiatives – Locations on site

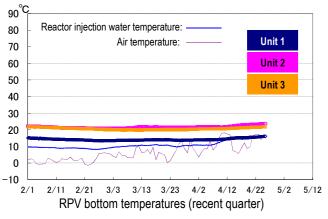


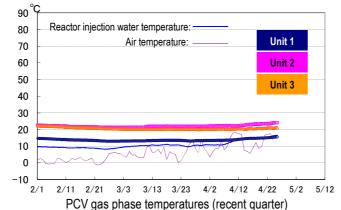
Provided by Japan Space Imaging Corp., photo taken on April 8, 2021 Product (C) [2020] DigitalGlobe, Inc., a Maxar company

I. Confirmation of the reactor conditions

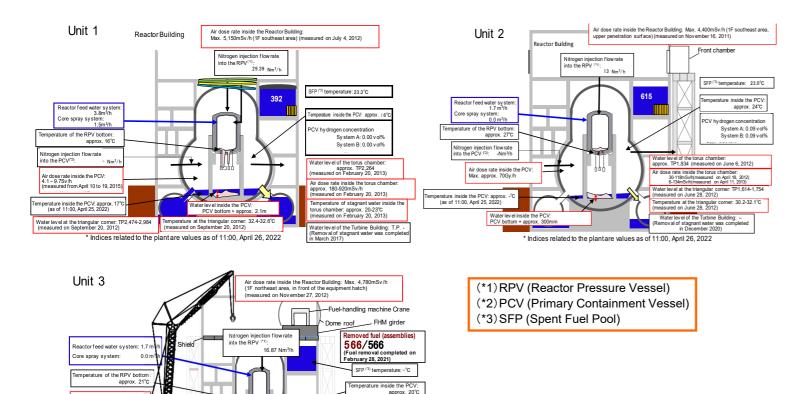
Temperatures inside the reactors

Through continuous reactor cooling by water injection, the temperatures of the Reactor Pressure Vessel (RPV) bottom and the Primary Containment Vessel (PCV) gas phase were maintained within the range of approx. 15 to 30°C for the past month, though it varied depending on the unit and location of the thermometer.





*1 The trend graphs show part of the temperature data measured at multiple points. *2 A part of data could not be measured due to maintenance and inspection of the facility and other work.



evel of the torus chamber: approx ured on June 6, 2012)

ose rate inside the torus chamber: 100-360mSv

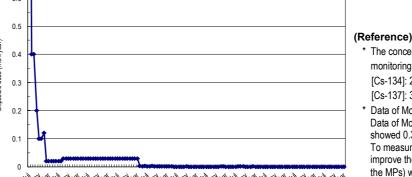


* Indices related to the plant are values as of 11:00, April 26, 2022

Femperature inside the PCV: approx. 22°C (as of 11:00, April 25, 2022)

As of March 2022, the concentration of radioactive materials newly released from Reactor Building Units 1-4 into the air and measured at the site boundary was evaluated at approx. 2.2×10^{-12} Bg/cm³ and 2.0×10^{-12} Bg/cm³ for Cs-134 and -137 respectively, while the radiation exposure dose due to the release of radioactive materials there was less than 0.00004 mSv/year.

Annual radiation dose at site boundaries by radioactive materials (cesium) released from Reactor Building Units 1-4



Note 1: Different formulas and coefficients were used to evaluate the radiation dose in the facility operation plan and monthly report. The evaluation methods were integrated in September 2012. As the fuel removal from the spent fuel pool (SFP) commenced for Unit 4, the radiation exposure dose from Unit 4 was added to the items subject to evaluation since November 2013. The evaluation has been changed to a method considering the values of continuous dust monitors since

FY2015, with data to be evaluated monthly and announced the following month. Note 2: Radiation dose was calculated using the evaluation values of release amount from Units 1-4 and Units 5 and 6. The radiation dose of Unit 5 and 6 was evaluated based on expected release amount during operation until September 2019 but the evaluation method was reviewed and changed to calculate based on the actual measurement results of Units 5 and 6 from October.

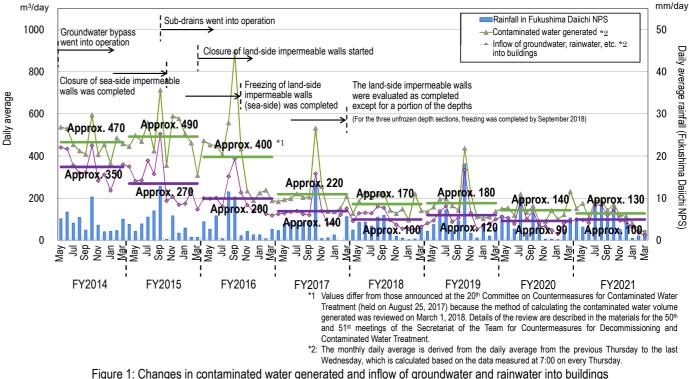
Other indices

There was no significant change in indices, including the pressure in the PCV and the PCV radioactivity density (Xe-135) for monitoring criticality, nor was any anomaly in the cold shutdown condition or criticality sign detected. Based on the above, it was confirmed that the comprehensive cold shutdown condition had been maintained and the reactors remained in a stabilized condition.

II. Progress status by each plan

Progress and others concerning ALPS treated water and others

- Status of contaminated water generated
- Multi-layered measures, including pumping up by sub-drains and land-side impermeable walls, which were buildinas.
- After implementing "redirecting" measures (groundwater bypass, sub-drains, land-side impermeable walls and others) contaminated water generated within FY2021 declined to approx. 130 m³/day.
- Measures will continue to further reduce the amount of contaminated water generated. m³/day



* The concentration limit of radioactive materials in the air outside the surrounding monitoring area:

- [Cs-134]: 2 x 10⁻⁵ Bg/cm^{3Marc}
- [Cs-137]: 3 x 10-5 Bg/cm3
- * Data of Monitoring Posts (MP1-MP8).
- Data of Monitoring Posts (MPs) measuring the air dose rate around the site boundary showed 0.336 - 1.078 µSv/h (March 30 - April 25, 2022).
- To measure the variation in the air dose rate of MP2-MP8 more accurately, work to improve the environment (trimming trees, removing surface soil, and shielding around the MPs) was completed

implemented to control the continued generation of contaminated water, suppressed the groundwater inflow into

and rainwater prevention measures, including repairing damaged portions of building roofs, the amount of

- Operation of the Water-Treatment Facility special for Sub-drain & Groundwater drains \geq
- At the Water-Treatment Facility special for Sub-drain & Groundwater drains, release started from September 14, 2015 and up until April 18, 2022, 1,820 releases had been conducted.
- The water quality of all temporary storage tanks satisfied the operation target.

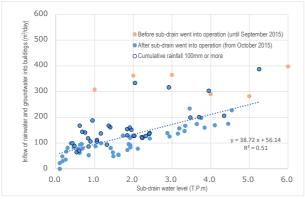
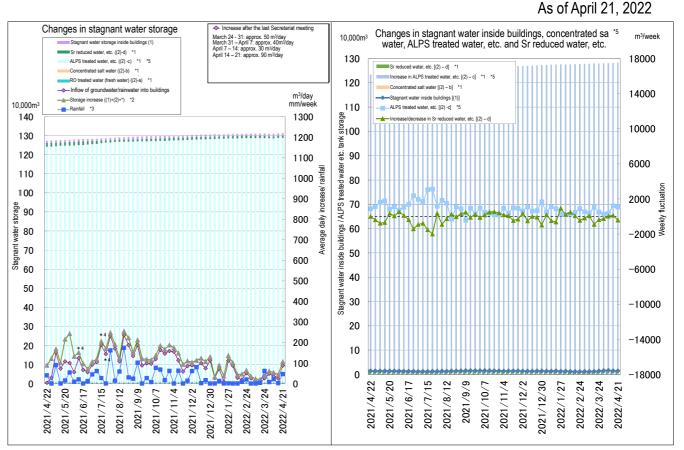


Figure 2: Correlation between inflow such as groundwater and rainwater into buildings and the water level of Units 1-4 sub-drains

 \geq Implementation status of facing

Facing is a measure involving asphalting the on-site surface to reduce the radiation dose, prevent rainwater infiltrating the ground and reduce the amount of underground water flowing into buildings. As of the end of March 2022, 95% of the planned area (1,450,000 m² on site) had been completed. For the area inside the land-side impermeable walls, implementation proceeds appropriately after constructing a yard from implementable zones that leave the decommissioning work unaffected. As of the end of March 2022, 30% of the planned area (60,000 m²) had been completed.

- Status of the groundwater level around buildings \geq
- The groundwater level in the area inside the land-side impermeable walls has been declining every year. On the mountain side, however, the difference between inside and outside was maintained, despite varying during rainfall. The water level of the groundwater drain observation well has been maintained at approx. T.P. +1.4 m, sufficiently below the ground surface (T.P. +2.5 m).
- Operation of multi-nuclide removal equipment \geq
- Regarding the multi-nuclide removal equipment (existing), hot tests using radioactive water are conducted (System A: from March 30, 2013, System B: from June 13, 2013, System C: from September 27, 2013). On March 23, 2022, a pre-service inspection certificate was granted by the Nuclear Regulation Authority and the entire pre-service inspection was completed. The multi-nuclide removal equipment (additional) went into full-scale operation from October 16, 2017. Regarding the multi-nuclide removal equipment (high-performance), hot tests using radioactive water are underway (from October 18, 2014).
- As of April 21, 2022, the volumes treated by existing, additional and high-performance multi-nuclide removal equipment were approx. 481,000, 733,000 and 103,000 m³, respectively (including approx. 9,500 m³ stored in the J1(D) tank, which contained water with highly concentrated radioactive materials at the System B outlet of the existing multi-nuclide removal equipment).
- Treatment measures comprising the removal of strontium by cesium-adsorption apparatus (KURION), the secondary cesium-adsorption apparatus (SARRY) and the third cesium-adsorption apparatus (SARRY II) continued. Up until April 21, 2022, approx. 673,000 m³ had been treated.
- Risk reduction of strontium-reduced water
- To reduce the risks of strontium-reduced water, treatment using existing, additional and high-performance multinuclide removal equipment is underway. Up until April 21, 2022, approx. 838,000 m³ had been treated.



Water amount for which the water-level gauge indicates 0% or more

- *2: To detect storage increases more accurately, the calculation method was reviewed as follows from February 9, 2017: (The revised method was applied from March 1, 2018) [(Inflow of groundwater/rainwater into buildings) + (other transfer) + (chemical injection into ALPS)] Changed from December 13, 2018 from rainfall in Namie to that within the site.
- *4: Considered attributable to the fluctuation inflow of groundwater, rainwater, and others to buildings due to the decline in the level of contaminated water in buildings (June 3-10 and July 8-22, 2021)
- *5: The notation of treated water by the multi-nuclide removal equipment and others was reviewed in accordance with redefining of ALPS treated water by the Government (April 27, 2021)

Figure 3: Status of stagnant water storage

- Status of review about the handling of zeolite sandbags
- examined, centering on underwater collection, which is expected to help provide a water-shielding effect.
- scenario set for the time of the accident and the facility is expected to be used for a short period.
- inside the building, the building itself will function as a boundary.
- Measures to prevent scattering of gas containing radioactive materials in the event of leakage will be implemented, the basement.
- Regarding the mockup, it was confirmed to date that zeolite can be transferred remotely without any problem. For the site environment, will be conducted.
- \geqslant Status of response to the Unit 1/2 exhaust stack drain sump pit

On the second basement level (lowest floor) of the Process Main Building (PMB) and High-Temperature Incinerator Building (HTI), a high radiation dose was measured at zeolite and activated carbon sandbags, which had been installed to adsorb radioactive materials in contaminated water in buildings. In response, countermeasures are being

A detailed design of the facility to handle zeolite sandbags and others will be formulated in future, but the seismic class will be set to B because the estimated radiation influence on the site boundaries is 5mSv / event based on the

Regarding the containment function, work to enclose in containers will be conducted in a sealed state, a house will be installed as a work area and openings to the basement will be closed. Moreover, assuming that the work is conducted

including installing exhausters equipped with filters in the house. Moreover, the dust concentration will also be managed during the work. In the plan, compressed air and other media will be exhausted via filters or discharged into

forthcoming detailed design, a mockup for work to collect and enclose in containers, which further simulates the on-

For the Unit 1/2 exhaust stack drain sump pit, in which highly concentrated contaminated water was detected, drain facilities were installed to prevent any leakage outside the system and measures implemented to suppress inflow to the pit. However, the inflow continued.

- In March, the inside of the pit was investigated by a camera and it was determined that the manhole located in the area southeast of the pit was the cause of the inflow. To suppress the inflow, the manhole lid will be replaced within April and the effectiveness of countermeasures will be verified.
- Work to construct the main body of the Japan Trench Tsunami Seawall commenced
- For work to construct the Japan Trench Tsunami Seawall, work to reinforce the slope in front of Units 1-4 (installing concrete wall material and embankment), which started from June 2021, proceeded steadily. Subsequently, work to install concrete material for the main seawall body and others commenced from February, part of which reached a height of T.P. 13.0m.
- Work continues as planned with completion scheduled for late FY2023.

Fuel removal from the spent fuel pools

Work to help remove spent fuel from the pool is progressing steadily while ensuring seismic capacity and safety.

- Main work to help spent fuel removal at Unit 1
- From late April 2021, work to assemble a temporary gantry and others has been underway in a yard outside the site as part of efforts to install a large cover.
- A work yard was prepared around the Reactor Building and work to install a large cover started from August 2021.
- · Before installing the anchor of the large cover, the exterior walls of the Reactor Building were investigated. An investigation of representative parts on the west side of the building revealed that both cracking and concrete strength were within the assumed range and that the anchor would be installable as planned.
- From April 13, 2022, drilling to install an anchor in the building started. Work has proceeded carefully; mitigating the exposure risk of workers using a remotely operated anchor drilling equipment and suctioning dust.
- · Moreover, during work, the dust concentration is monitored by on-site dust monitors to check for any significant fluctuation.
- Main work to help spent fuel removal at Unit 2 \geq
- Decontamination to suppress dust scattering on the top floor of the Reactor Building was completed in December 2021. Contamination reduction was confirmed based on smear sampling results. Installation of shielding started from February within the range including the reactor well, where the highest dose was observed and will be completed at the end of May.
- From October 28, 2021, ground improvement work started before installing the gantry for fuel removal and was completed on April 19, 2022, and work to install the gantry foundation will then proceed.
- Outside the site, work to prepare a yard for ground assembly of steel frames was completed on March 18. Before the ground assembly from July, preparation will proceed.

Retrieval of fuel debris

- Progress status toward Unit 1 PCV internal investigation
- To acquire information related to the construction plan to collect deposits and others toward fuel debris retrieval, a remotely operated underwater vehicle (ROV) will be inserted into the basement within the PCV from X-2 penetration to investigate inside and outside the pedestal.
- From November 5, preliminary work is underway, such as covering the work area and installing equipment and materials in the on-site headquarters and the remote operation room, before the PCV internal investigation.
- On January 12, when powering on investigative equipment such as the submersible ROV sequentially, a malfunction was detected, whereby the dosimeter data incorporated in the submersible ROV was not displayed correctly. Work was temporarily suspended.
- For February 4-7, after implementing countermeasures for the above event, the operation was verified and no recurrence was confirmed. Work to resume the investigation was conducted.

- On February 8, the submersible ROV-A was inserted into the PCV and guide rings were installed at four points by February 9.
- · With these preparations completed, on March 14, the submersible ROV-A2 was inserted to commence "a detailed visual inspection of the outside pedestal perimeter."
- After the Fukushima Prefecture Off-coast Earthquake on March 16, the PCV water level declined. To obtain the water level necessary for the investigation, the water injection rate into the reactor was increased.
- On March 29, the water level was checked by the submersible ROV-2. An increase in water level was confirmed but due to transparency loss of the mounted camera and others, the investigation was suspended.
- The investigation into the cause for the loss of image transmission due to water infiltration detected damage to a wrinkle made on the cable coating.
- To prevent recurrence, part of the investigative route will be changed and the work procedures revised to suppress resuming the investigation.
- \geq Progress status toward Unit 2 PCV internal investigation and trial retrieval
- The trial retrieval equipment for Unit 2 fuel debris, which had been developed in the UK, arrived in Japan on July 10. The ongoing performance verification test in a domestic factory (Kobe), which started from August, finished on January 21.
- · The equipment was transported from January 28 and the robot arm arrived on January 31 and the enclosure, on February 4, at the Naraha Center for Remote Control Technology Development of the Japan Atomic Energy Agency (JAEA) (hereinafter referred to as the "Naraha mockup facility").
- From February 14, the performance verification test and operational training started at the Naraha mockup facility.
- \geq Response to work for the Unit 3 PCV intake facility
- As a measure to improve earthquake resistance, there is a plan to decrease the PCV (S/C) water level gradually.
- Installation of the PCV intake facility was started from October 2021 and completed in March 2022.
- From March 28 to late April, filtered water and S/C retained water are being collected to verify the operation of the intake pumps, performance of the flow control valve and others. On April 26, the facility will undergo a system test of the pre-service inspection.
- The PCV intake facility will go into operation after the test to stop water injection into the Unit 3 reactor.
- Status of work to remove a portion of the pipes of the Units 1 and 2 standby gas treatment system (SGTS)
- When cutting the Units 1/2 SGTS pipes, the wire saw blade of the cutter bit into the pipe. An investigation into the cause and examination of possible countermeasures are underway.
- The cause for the wire saw blade biting into the pipe is considered highly attributable to the upstream side (Unit 2 side) of the pipe used for cutting sinking under its own weight during the cutting process, compressive force being applied to the cut surface and the wire saw subsequently biting into the pipe.
- Countermeasures are being examined, including holding the Unit 2 side of the pipe and lifting it to the upper side by crane to reduce the compressive force. The cutter angle will also be adjusted and the cutting area around the cut part reduced to prevent biting. Outside the site, using mockup pipes, the biting event will be reproduced and countermeasures verified.
- Analysis results of samples acquired in the Fukushima Daiichi Nuclear Power Station (NPS)
- In the Fukushima Daiichi NPS, with decommissioning progressing, samples can be acquired from the inside of the Units 1-3 Primary Containment Vessel (PCV) and related facilities which were previously unavailable due to issues such as the high-dose environment.
- Information obtained through detailed analysis of these samples will be utilized in future decommissioning such as examination of fuel debris distribution and the chemical properties of fission products (FP). For this purpose, a the analysis results of samples were evaluated in collaboration with the Countermeasures for Decommissioning and

wrinkles on cable coating. At present, adjustment is underway to stably maintain the necessary PCV water level for

Contaminated Water Management "Advancement of Comprehensive Grasping of Inner Reactor" and "Development of Technologies for Grasping and Analyzing Properties of Fuel Debris."

- To date, by analyzing and evaluating focused on U-containing particles, the fine particle formation process has been outlined.
- This time, for samples acquired from the inside of the pipe for the Units 1/2 standby gas treatment system (SGTS) which was assumed to be the main transport route during the PCV vent at the time of the accident, properties focused on fuel constituent (U) and volatile FP (Te and Cs) were evaluated based on the analysis results by the scanning and transmission electron microscopes (SEM/TEM). This evaluation allowed the inner reactor environment (temperature, atmosphere and others) at the time of particle formation and transport behavior (form and route) of volatile FP to be estimated.
- From the analysis results, limited but certain information related to a review of the accident progress was obtained, such as the environment at the time of particle formation, transport behavior of volatile FP and the existence of elements having affected the melting behavior of fuel debris.

Plans to store, process and dispose of solid waste and decommission of reactor facilities

Promoting efforts to reduce and store waste generated appropriately and R&D to facilitate adequate and safe storage, processing and disposal of radioactive waste

- Management status of the rubble and trimmed trees
- As of the end of March 2022, the total storage volume for concrete and metal rubble was approx. 323,300 m³ (+4,700 m³ compared to the end of February with an area-occupation rate of 86%). The total storage volume of trimmed trees was approx. 139,800 m³ (-700 m³, with an area-occupation rate of 80%). The total storage volume of used protective clothing was approx. 29,000 m³ (+1,000 m³, with an area-occupation rate of 55%). The increase in rubble was attributable to work around Units 1-4, general waste on-site, decontamination of flanged-tanks, work related to the port, work related to tanks, work related to the water-treatment facilities, transfer for area arrangement and others. As of the end of March 2022, there were 13 temporary deposits with storage capacity exceeding 1,000m³ and a total storage volume of 51,800 m³.
- Management status of secondary waste from water treatment
- As of March 31, 2022, the total storage volume of waste sludge was 472 m³ (area-occupation rate: 67%), while that of concentrated waste fluid was 9,323 m³ (area-occupation rate: 91%). The total number of stored spent vessels, High-Integrity Containers (HICs) for multi-nuclide removal equipment and other vessels, was 5,328 (area-occupation rate: 84%).

Reduction in radiation dose and mitigation of contamination

Effective dose-reduction at site boundaries and purification of port water to mitigate the impact of radiation on the external environment

- Status of groundwater and seawater on the east side of Turbine Building Units 1-4
- In the Unit 1 intake north side area, the H-3 concentration was below the legal discharge limit of 60,000 Bg/L at all observation holes and remained constant or has been declining overall. The concentration of total β radioactive materials has remained constant overall but increased temporarily from April 2020 and is even increasing or declining at many observation holes at present, including Nos. 0-1-2, 0-3-1, 0-3-2 and 0-4. The trend continues to be monitored carefully.
- In the area between the Unit 1 and 2 intakes, the H-3 concentration has remained below the legal discharge limit of 60,000 Bg/L at all observation holes. It has been increasing or declining at Nos. 1-14 and 1-17 but has otherwise remained constant or been declining overall. The concentration of total β radioactive materials has remained constant overall but been increasing at No. 1-6 and increasing or declining at many observation holes, including Nos. 1-9, 1-11, 1-12, 1-14, 1-16 and 1-17. The trend continues to be monitored carefully.
- In the area between the Unit 2 and 3 intakes, the H-3 concentration has been below the legal discharge limit of 60,000

Bg/L at all observation holes. It has been increasing and declining at Nos. 2-3 and 2-5 but has remained constant overall. The concentration of total β radioactive materials has remained constant overall but been increasing or declining at Nos. 2-3, 2-5 and 2-6. The trend continues to be monitored carefully.

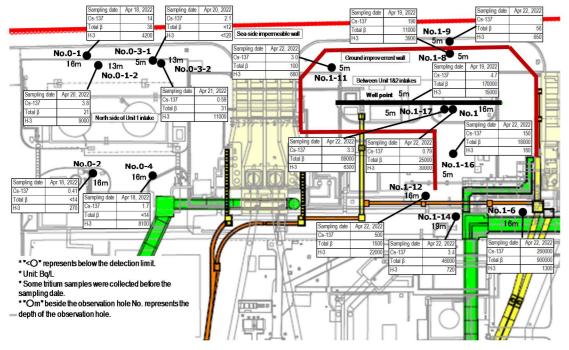
- In the area between the Unit 3 and 4 intakes, the H-3 concentration has been below the legal discharge limit of 60,000 including Nos. 3-4 and 3-5. The trend continues to be monitored carefully.
- In the groundwater on the east side of the Turbine Buildings, as with the total β radioactive materials, the concentration some observation holes. Investigations are underway.
- The concentration of radioactive materials in drainage channels has remained constant overall, despite increasing during rainfall.
- In the open channel area of seawater intake for Units 1 to 4, the concentration of radioactive materials in seawater
- In the port area, the concentration of radioactive materials in seawater has remained below the legal discharge limit and been declining long term, despite temporary increases in Cs-137 and Sr-90 observed during rainfall. They have remained below the level of those in the Units 1-4 intake open channel area and been declining following the completed installation and connection of steel pipe sheet piles for the sea-side impermeable walls.
- meteorology and others.

Bg/L at all observation holes. It has remained constant or been declining overall. The concentration of total β radioactive materials has remained constant overall but has been increasing or declining at many observation holes,

of cesium has also remained constant but been increasing or declining and exceeded the previous highest record at

has remained below the legal discharge limit and been declining long term, despite temporary increases in Cs-137 and Sr-90 noted during rainfall. They have also been declining following the completed installation and the connection of steel pipe sheet piles for the sea-side impermeable walls. The concentration of Cs-137 has remained slightly higher in front of the south side impermeable walls and slightly lower on the north side of the east breakwater since March 20, 2019, when the silt fence was transferred to the center of the open channel due to mega float-related construction.

 In the area outside the port, regarding the concentration of radioactive materials in seawater, those of Cs-137 and Sr-90 declined and remained low after steel pipe sheet piles for the sea-side impermeable walls were installed and connected. Regarding the concentration of Cs-137, a temporary increase was sometimes observed on the north side of the Unit 5 and 6 outlets and near the south outlet due to the influence of weather, marine meteorology and other factors. Regarding the concentration of Sr-90, variation has been observed since last year in the area outside the port (north and south outlets). Monitoring of the tendency continues, including the potential influence of the weather, marine



<Unit 1 intake north side, between Unit 1 and 2 intakes>

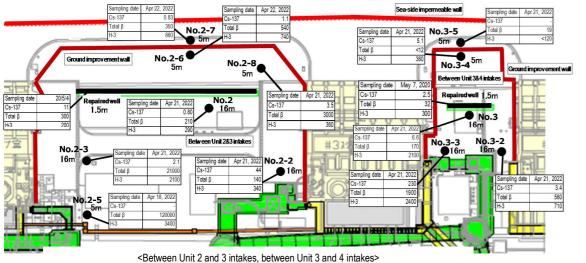
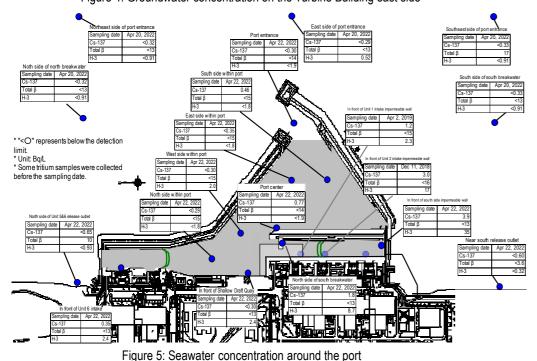


Figure 4: Groundwater concentration on the Turbine Building east side



- Dose status in the Fukushima Daiichi Nuclear Power Station (NPS)
- To improve the work environment in the Fukushima Daiichi NPS, measures to remove surface soil, install shielding and others have been implemented sequentially from areas where many workers are involved to reduce the dose.
- seawall as a countermeasure to the Japan Trench Tsunami.
- status.

Outlook of the number of staff required and efforts to improve the labor environment and conditions

Adequate number of staff will be secured in the long-term, while firmly implementing radiation control of workers. The work environment and labor conditions will be continuously improved by responding to the needs on the site.

- Staff management
- registered to work on site.
- It was confirmed with the prime contractors that the estimated manpower necessary for the work in May 2022 (approx. approx. 3,000 to 4,200.
- The number of workers both from within and outside Fukushima Prefecture increased slightly. The local employment
- The average exposure doses of workers were at approx. 2.44, 2.54 and 2.60 mSv/person-year during FY2018, 2019 the TEPCO HD management target is 20 mSv/person-year).
- radiation work.

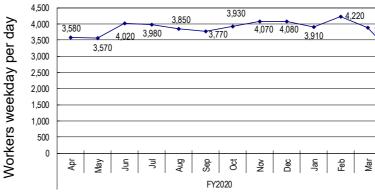


Figure 6: Changes in the average number of workers weekday per day for each month of the past 2 years (actual values)

• In terms of dose distribution on the on-site main roads, the dose rate has been declining year by year. In particular, in the area on the east side of the Turbine Buildings, the dose rate has declined by facing related to installation of the

Efforts to improve the on-site work environment will continue by periodically measuring the dose and determining the

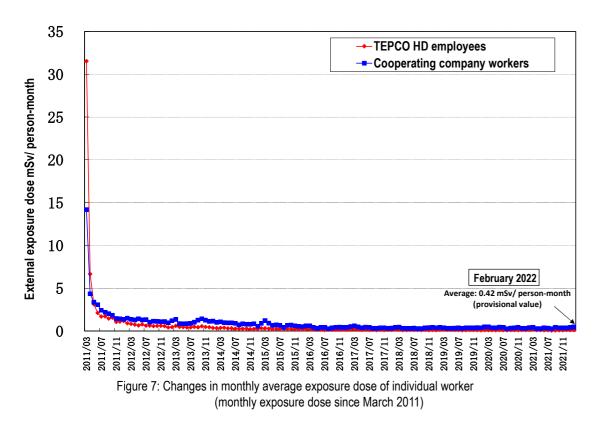
The monthly average total of personnel registered for at least one day per month to work on site during the past quarter from December 2021 to February 2022 was approx. 9,000 (cooperating company workers and TEPCO HD employees), which exceeded the monthly average workforce (approx. 6,800). Accordingly, sufficient personnel are

4,000 workers per day: cooperating company workers and TEPCO HD employees) would be secured at present. The average numbers of workers per day for each month (actual values) for the most recent 2 years were maintained, with

ratio (cooperating company workers and TEPCO HD employees) as of March 2022 remained constant to around 70%. and 2020, respectively. (The legal exposure dose limits are 100 mSv/person and 50 mSv/person-year over five years,

For most workers, the exposure dose was sufficiently within the limit and allowed them to continue engaging in

							3,890		3,920	4,1	70
3,890	3,	690	3,6	80	~	3.80	0	3,850			3,890
	3,2	200		\checkmark	3,550						
3,020				3,020							
1											
Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
	FY2021										
1											



FY2021 accident occurrence status and FY2022 safety activity plan

- The number of work accidents in FY2021 decreased to 22 from 27 the previous fiscal year. The number of accidents decreased but still remained high. Issues need to be analyzed and ongoing accident prevention measures must continue to be reviewed and improved. There were three serious injuries (incapacitating the workers for 14 days or more).
- The number of heat stroke cases in FY2021 decreased to 8 from 11 in the previous fiscal year. In FY2021, as in the previous year, heat-stroke rules were followed, heat-stroke prevention measures customized to each company site were implemented and new ice packs which tripled the cooling effect of conventional equivalents were introduced. Consequently, there were no serious heat stroke cases of degree-II or more. Furthermore, as a characteristic in FY2021, full-face masks were worn in all areas of work. The strengthened management for work with full-face mask or others will be reflected in the heat-stroke prevention plan.
- In FY2022, setting the focused activities as "efforts to thoroughly ensure safety actions" and "efforts to conduct safety activities together with the company," safety awareness will be raised, safety education enhanced and dangerous places eliminated to prevent accidental injuries or fatalities.
- Health management of workers in the Fukushima Daiichi NPS \geq
- As health management measures in line with the guidelines of the Ministry of Health, Labour and Welfare (issued in August 2015), a scheme was established and operated, whereby prime contractors confirmed reexamination at medical institutions and the subsequent status of workers who were diagnosed as requiring "detailed examination and treatment" in the health checkup, with TEPCO confirming the operation status by the prime contractors.
- The recent report on the management status of the health checkup during the third guarter (October December) in FY2021 confirmed that the prime contractors had provided appropriate guidance and managed operations properly under the scheme. The report on the follow-up status during the second guarter in FY2021 and before confirmed that responses to workers, which had not been completed by the time of the previous report, were being provided on an ongoing basis and checking of operations will continue.
- Countermeasures to suppress the spread of COVID-19 infections \geq
- The semi-state of emergency COVID-19 measures applied to 18 prefectures including Tokyo was totally lifted on March 21. However, for TEPCO HD employees and cooperating company workers at the Fukushima Daiichi Nuclear

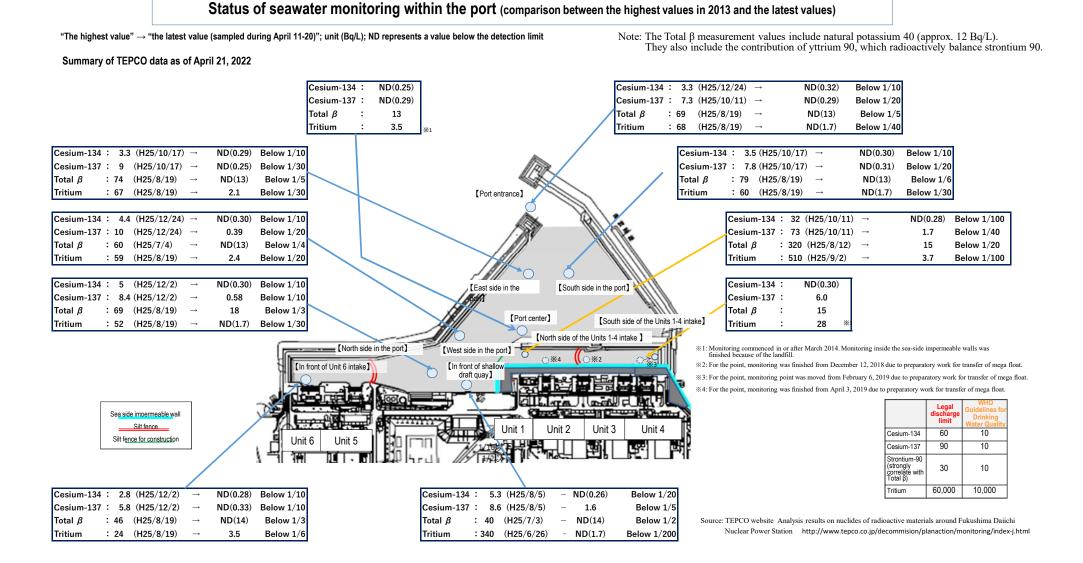
Power Station, countermeasures to prevent the infection spreading, such as requiring employees to take their temperature before coming to the office, wear masks at all times, avoid the "Three Cs" (Closed spaces, Crowded places, Close-contact settings) by using the rest house in shifts, eat silently and carefully select business travel, will continue to be properly implemented. In addition, they must strictly check their physical conditions, including of their family members, before coming to the company at the beginning of the week, report to their supervisors and managers whether they have contact of "Three Cs," many people or an unspecified number of people or not and undergo an antigen test when they return to Fukushima prefecture from the outside (scheduled to be required until the Golden Week holidays) to proceed decommissioning work with safety first.

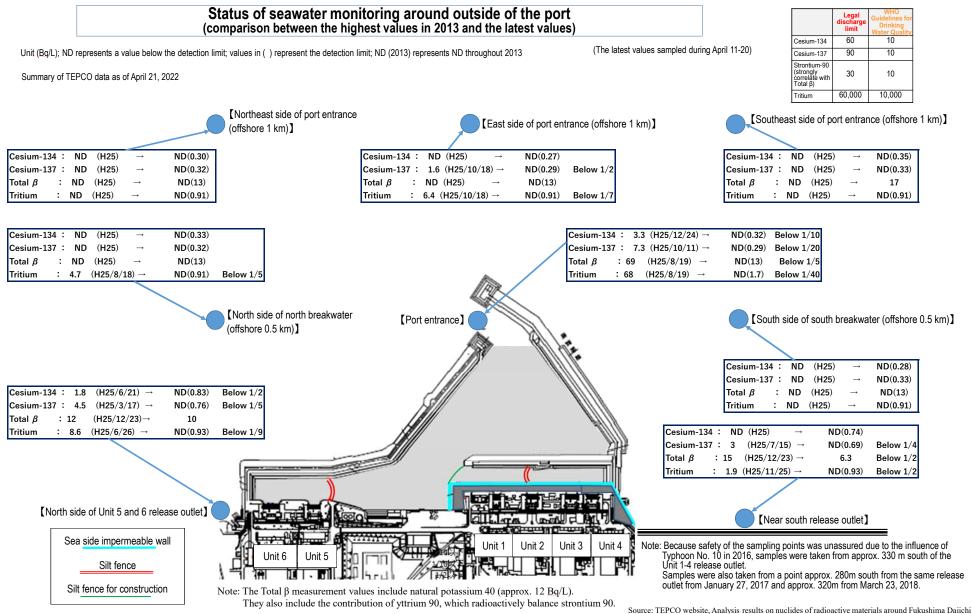
- workers and 1 business partner company employee) had contracted COVID-19.
- No significant influence on decommissioning work, such as a corresponding delay to work processes due to this infection, had been identified.
- The third workplace vaccination of COVID-19 was implemented for the period March 28 April 15, 2022 to a total of 2,739 workers (including 662 TEPCO HD employees and 2,077 cooperating company workers).
- · Acceptance of inspectors resumed from March 22.
- Measures to prevent infection and expansion of influenza and norovirus \geq
- working spaces, etc.).
- \geq Status of influenza and norovirus cases
- Until the 16th week of 2022 (April 18-24, 2022), no influenza and seven norovirus infections were recorded. The totals for the same period for the previous season showed one influenza and one norovirus infection respectively.

Note: The above data is based on reports from TEPCO HD and cooperating companies, which include diagnoses at medical clinics outside the site. The subjects of this report were cooperating company workers and TEPCO HD employees in Fukushima Daiichi and Daini Nuclear Power Stations.

 As of 15:00, April 26, 2022, 284 workers (including 43 TEPCO HD employees, 1 temporary worker, 238 cooperating company workers and 2 business partner company employees) of the Fukushima Daiichi NPS had contracted COVID-19. Since January 2022, a total of 180 workers (including 33 TEPCO HD employees, 146 cooperating company

Since November 2021, measures for influenza and norovirus have been implemented, including free influenza vaccinations (subsidized by TEPCO HD) at medical clinics around the site (from October 11, 2021 to January 29, 2022) for cooperating company workers. As of January 29, 2022, a total of 4,866 workers had been vaccinated. In addition, a comprehensive range of other measures is also being implemented, including daily actions to prevent infection and expansion (measuring body temperature, health checks and monitoring infection status) and response after detecting possible infections (swift exit of possible patients and control of entry, mandatory wearing of masks in



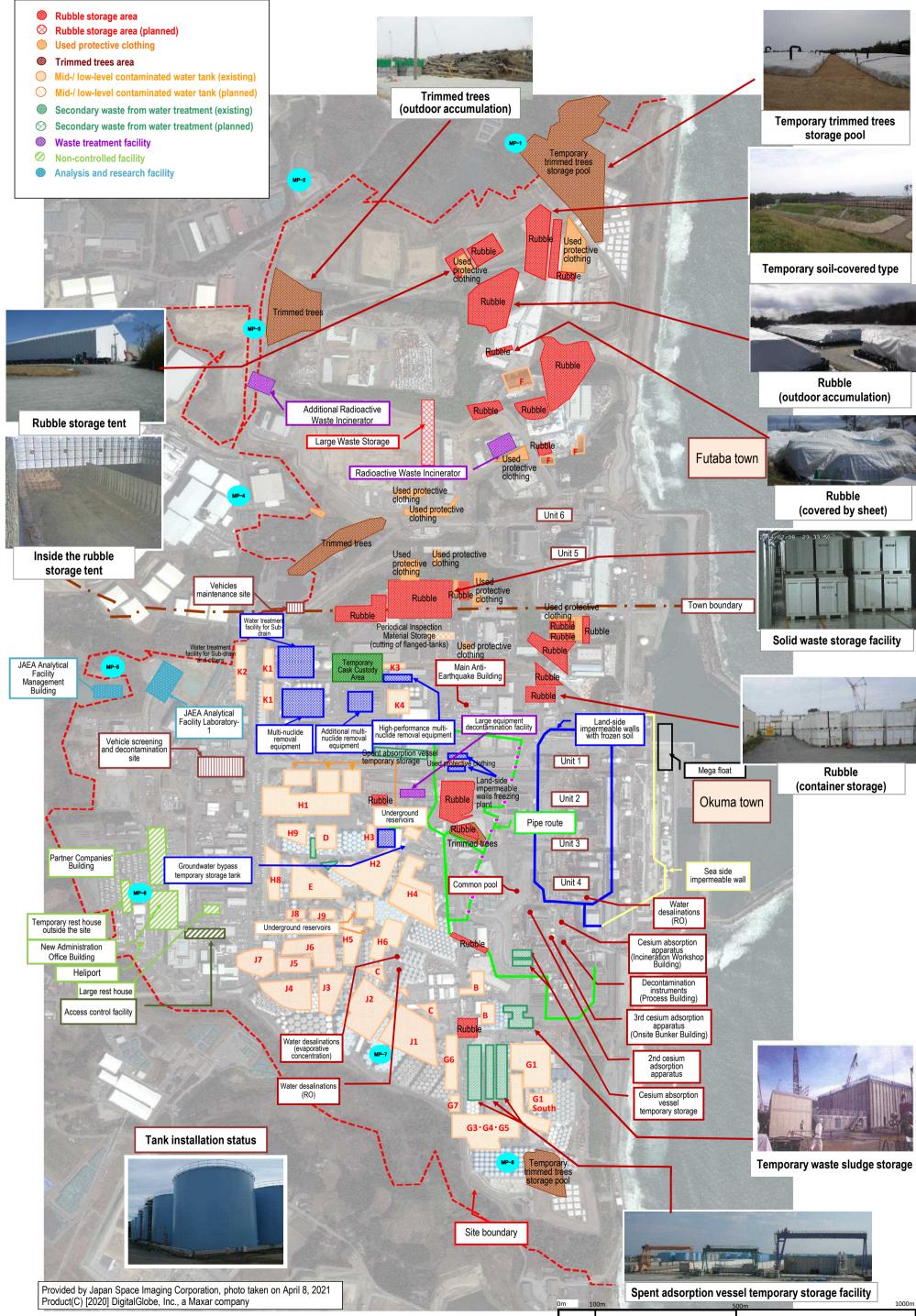


Nuclear Power Station http://www.tepco.co.jp/decommision/planaction/monitoring/index-j.html

TEPCO Holdings Fukushima Daiichi Nuclear Power Station Site Layout

Appendix 2





1-1 Contaminated water management

- Efforts to promote contaminated water management based on three basic policies:
 - ① "Remove" the source of water contamination ② "Redirect" fresh water from contaminated areas
 - ③ "Retain" contaminated water from leakage

Milestones of the Mid- and-Long-Term Roadmap (major target processes)

• [Completed] Suppressing the amount of contaminated water generated to 150 m3/day or less (within 2020)

 Suppressing the amount of contaminated water generated to 100 m³/day or less (within 2025)

Reference April 27, 2022 Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water 1/6

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
	1	2 3 4 5 6 7 8 9 10 11 13	12 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12 2013	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 1			2 1 2 3 4 5 6 7 8 9 10 11 1	1 2 3 4 5 6 7 8 9 10 11	12 1 2 3 4 5 6 7 8 9 10 11 1	1 2 3 4 5 6 7 8 9 10 11	2 1 2 3 4 5 6 7	8 9 10 11 1
		⊽ De contamination e	2012 ninated water to Central Waste Treatmen equipment (AREVA) concentration equipment	2010	2014	2015 ∵ Treatment of RO-cond	2016 ensed salt water complete	2017	2018 ⊽Pu	2019 ification of strontium-reduced water in		2021 f strontium-reduced water complete	2022	
Contaminated water management	Contaminated water treatment facility		n Apparatus (KURION) Adsorption Apparatus (SARRY)		sium Adsorption Apparatus (KURION) ▽		Adsorption Apparatus (KURION) (from)						_	
				⊽Multi-nuclide Removal Favio	C. S. Street	0, System B: from 2013.6.13, System	C: from 2013.9.27, hot tests conducted				trontium by 3rd Cesium Adsorption App	aratus (SARRY II) (from 2019.7.12)		
			Landing of 2 nd Cesi			de Removal Equipment (additional AL uclide Removal Equipment (high perfo	.PS) prmance ALPS) (from 2014.10.18, hot to 		of full-scale operation (from 2017.10.16) m ³ /day 1000	Sub-drains went in	to operation	Rainfall in Fukushima Dalichi NP	mm/day	
			Adsorption Apparatus (S		nch Purification by mobile equipment	⊽ ⊽Transfer of stagnar	Completion of tunnel filling t water complete		800	Closure of sea-side impermeable	of land-side impermeable walls started	-ei-Contaminated water generated -Inflow of groundwater, rainwater, i into buildings	40 aven	
	Removal of contaminated vater from seawater pipe trench		(Removal of contaminated wate seawater pipe terch)		Un			Unit 2 seawater Shaft D fillio		Approx.e350 Approx.e278	The tand-side may be available of the tand-side importantial was completely as a completely as	pth sections, freezing was completed by September 2018)	20 shina Dai ci rgx: 130 10	
					Ur		III complete Transfer stagnant water complete Completion of filling parts running ove		0	<u> Անհնաննքի հ., նվ</u>	Appro1.140 Appro2.160 응공특별 공국응공 특별 공국응공 특별 2016 FY2017 FY2018	Abarox 129 FAbb (* 90 FAbb	Y2021	
	Groundwater bypass		⊽installat	tion start of groundwater bypass		f groundwater bypass (draina	ge started from 2014.5.21)				cc	uppressing the average amount of ⊽ Intaminated water generated to Inprox. 130 m ³ /day		
Contaminated water management [Redirect]	Sub-drain				art of Water-Treatment Facility special n & Groundwater drains		I tion start of sub-drain (drainag capacity: 1000 m3/day)	e started from 2015.9.14)		atment capacity				
[Redirect]	Land-side impermeable vall							⊽Start of maintenance o	peration on north and south sides ⊽Freezing					
					⊽Installation start of la	and-side impermeable walls		Start of maintenance operation $ abla $	⊽ Freezing completion (Start of maintenance operation except for some parts)	in all sections			
-		-						vement (facing)				vement (facing)		
	Facing	-					(except for areas of 2.5 and	I 6.5m above sea level and around Uni	it 1-4)		(except for around Unit 1-4)			
	Bank groundwater measures		High concentration of radio detected from observati		e sea level – Start of ground improven ing of water from contaminated areas (
					ing or water from contaminated areas (
			▽Installation start of seaside	impermeable walls			allation of seaside impermeabl beration start of groundwater drain (purm	1 .						
								· · · · · · · · · · · · · · · · · · ·						
Contaminated water management	Storage facility	⊘Storage in steel squar	re tanks		⊽Re	⊽Purification of RO-con placement of steel square tanks comp	densed salt water complete lete				ks complete (except for condensed wa	ste liquid storage tank)		
				⊽Water leakag	e (300L) from flanged tank ⊽Water leakage (100t) from flange	l d tank								
[Retain]		⊽Storage in fla	anged cylindrical tanks		Completion of fence to prevent leakag				∇Pi		ed water in flanged tanks comp	ete		
			Water leakage (10L) from flanged tar in the second s	nk		height complete					reated water in welded-joint tanks			
					water from underground reservoir => 5 minated water to tanks complete	start of transfer to tanks								
					I welded-joint tanks							f strontium-reduced water complete		
					⊽Sprinkling start of rainw	vater within tank fences by rainwater tre	atment facility (from 2014 5 21)							
					v opmining addit of falling	www.intern.com/co.by.rellWdi01.00	some some (ion zon.o.zi)							
			۱ <u> </u>			I	1	I		1	1		I	



Legend

_



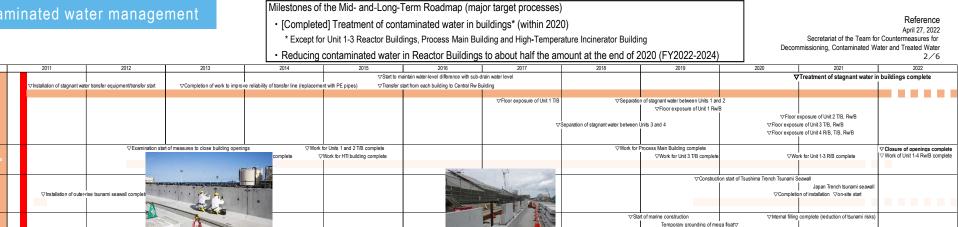










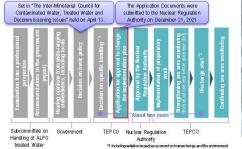


Chishima Trench Tsunami Seawall complete Construction of Japan Trench Tsunami Seawall

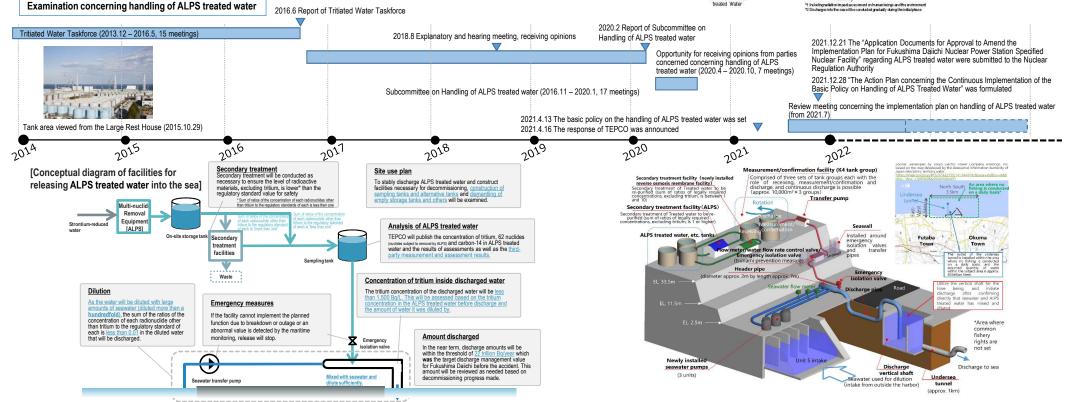
2 Handling of ALPS treated water

In "The Inter-Ministerial Council for Contaminated Water, Treated water and Decommissioning" held on April 13, the basic policy on how to handle ALPS treated water was set. Based on this, the response of TEPCO was announced on April 16.

Regarding the discharge of ALPS treated water into the sea, TEPCO must comply with regulatory and other safety-related standards to ensure the safety of the public, surrounding environment and agricultural, forestry and fishery products. To minimize adverse impacts on reputation, monitoring will be further enhanced, objectivity and transparency ensured by engaging with third-party experts and safety checked by the IAEA. Moreover, accurate information will be disseminated continuously and in a highly transparent manner.







3 Removal of fuel from spent pool

Milestones of the Mid- and-Long-Term Roadmap (major target processes)

· Completion of Unit 1-6 fuel removal (within 2031)

Completion of installation of Unit 1 large cover (around FY2023), start of Unit 1 fuel removal (FY2027-2028)

Reference

April 27, 2022

3/6

Secretariat of the Team for Countermeasures for

Decommissioning, Contaminated Water and Treated Water

Start of Unit 2 fuel removal (FY2024-2026)

Legend Storage and handling of fuel Rubble removal, etc. Fuel removal 2011 2014 2018 2020 2021 2012 2013 2016 2017 2019 2015 In the Mid- and-Long-Term Roadmap, the Phase 1 target involved starting to remove fuel from inside ▼ 2011.11- 2012.7 Removal of rubble on the Reactor Building top floor All fuel assemblies from Unit 4 had been the spent fuel pool (SFP) of the 1st Unit within two years of completing Step 2 (by December 2013). removed by December 2014. On November 18, 2013, fuel removal from Unit 4, namely the first Unit, got underway and Phase 2 of the ▼ 2012.4-2013.3 Ground improvement and foundation work roadmap ▼ 2013.4-2013.7 Installation of external walls and roof panels started. On November 5, 2014, within a year of commencing fuel removal work, all 1,331 spent fuel assemblies ▼ 2013.6-2013.10 Installation of overhead crane and fuel-handling machine in the pool had been transferred. The transfer of the remaining non-irradiated fuel assemblies to the Unit 6 SFP ▼ 2013.8-2013.10 Removal of rubble inside the reactor well and pool was completed on December 22, 2014, (two of the non-irradiated fuel assemblies were removed in advance in July 2012 for fuel checks) ▼ 2013.11.18 Start of fuel removal <Unit 4 Cover for fuel removal> Fuel removal This marks the completion of fuel removal from the Unit 4 Reactor Building. 2014.12.22 Fuel removal was completed (1533 assemblies) Unit 4 ▼ 2013.10 Completion of removal of large rubble on the Reactor Building top floor All fuel assemblies from Unit 3 had ▼ 2015.8 Completion of removal of the fuel-handling machine B within the spent fuel pool been removed by February 2021. Overview of the fuel-handling facility inside the cover ▼ 2016.12 Completion of shielding on the Reactor Building top floor <Unit 3 Cover for fuel removal (dome roof) 2019.2.21> Before installing a cover for fuel removal, the Fuel-handling machine 2017.1 Installation start of a cover for fuel removal process of removing large rubble from the spent fuel ▼ 2019.4.15 Start of fuel removal pool was completed in November 2015. To ensure 2021.2.28 Fuel removal completed (566 assemblies) safe and steady fuel removal, training via remote in 🛱 control was conducted at the factory using the actual Unit 3 fuel-handling machine to be installed on site R (February - December 2015). Installation of the fuel Init 3 Reactor Building removal cover was completed on February 23, 2018. With fuel removal in mind, rubble retrieval training ▼ 2015.3-2016.11 Yard construction inside the pool, which was scheduled in conjunction with fuel removal training, started from March 15. Unit 2 ▼ 2016.9-2017.4 West-side gantry installation work 2019 and fuel removal started from April 15, 2019. Overview of fuel removal ▼ 2017.5 Opening a hole in the west-side external wall Fuel removal was completed on February 28, 2021. (bird's-eye view) ▼ 2018.8-2020.12 Moving and containment of remaining objects For Unit 2, with the removal of spent fuel in mind, a "gantry for fuel removal" (gantry and front room) will be constructed on the south side of the building. ▼ 2020.6 Investigation inside the spent fuel pool Jnit 2 Construction of gantry for fuel removal> ▼ 2021.10 Start of ground improvement work As part of efforts to remove fuel from the Unit 2 spent fuel pool and based on findings from Unit 2 internal operating floor investigations from November 2018 to February 2019, instead of fully dismantling the upper part of the building, the decision was made to install a small opening on ▼ 2020.3-6 Installation of spent fuel pool cover the south side and use a boom crane. Examination continues to initiate fuel removal from ▼ 2020.9-11 Measures to prevent and alleviate rubble falling FY2024 to FY2026. ▼ 2020.11-2021.6 Dismantling of remaining cover ✓ 2017.12 Completion of building cover dismantling and windbreak fence installation ✓ 2018.1-2020.12 Rubble removal on the north side of Reactor Building 20 <Reference> Progress to date ▼ 2021.8 Start of large cover pre-work For Unit 1, a large cover will be installed over the whole Previously, scope to recover the existing overhead crane ▼ 2018.9-12 Removal of X-braces building, within which rubble will be removed. and the fuel-handling machine was examined. However, the high radiation dose inside the operating floor meant Unit 1 the decision was taken to dismantle the upper part of the As part of efforts to remove fuel from the Unit 1 spent fuel pool, investigations are underway to building in November 2015. Findings from internal ascertain the conditions of the fallen roof on the south side and the contamination of the well plug. investigations of the operating floor from November 2018 Based on the results, "the method initially installing a large cover over the Reactor Building, then to February 2019 underlined the potential to conduct removing rubble within the cover" was selected to ensure safer and more secure removal. Work to install limited work there and the means of accessing from the a large cover started from August 2021. Work to complete the installation of a large cover by around south side was examined. FY2023 is ongoing, with fuel removal scheduled to run from FY2027 to FY2028. <Reference> Progress to date Rubble removal on the north side of the operating floor started from January 2018 and has been implemented sequentially. In July and August 2019, the well plug, which was misaligned, was investigated, followed in August and September by the conditions of the overhead crane. Based on the results of these investigations, as the removal requires more careful work taking dust scattering into consideration, two methods were examined: Installing a cover after rubble removal, initially installing a large cover over the Reactor Building, then removing rubble inside the cover. <Unit 1 Dismantling of remaining cover> Rubble removal (image) Fuel removal (image) 2020 2013 2017 2018 2019 2021 2011 2012 2014 2015 2016 * Part of the photo is corrected because it includes machine information related to nuclear material prote

Milestones of the Mid- and-Long-Term Roadmap (major target processes)

Start of fuel debris retrieval from the first unit (Unit 2). Expanding the scale in stages (within 2021 * The schedule will be extended for about 1 year due to the spread of COVID-19 infections)

Before removing fuel debris, investigations inside the Primary Containment Vessel (PCV) are conducted to inspect the conditions there, including locations of fuel debris.

Unit 1 Investigation overview

 In April 2015, a device having entered the inside of the PCV via a narrow opening (bore: @100 mm) collected information such as images and airborne dose inside the PCV 1st floor.

• In March 2017, an investigation using a self-propelled investigation device was conducted to inspect the spreading of debris to the basement floor outside the pedestal, with images taken of the PCV bottom status for the first time. The conditions inside the PCV will continue to be examined, based on the imagery and dose data obtained.



In February, the first remotely operated underwater vehicle (ROV-A) was inserted to install "guide rings" which will facilitate the investigation. As installation of guide rings has been completed, then a detailed investigation will be implemented.

In this investigation, distribution of deposits outside the pedestal and their characteristics or others will also be investigated. The results of these investigations will be utilized in the examination of method and procedures toward future debris retrieval.



Unit 1 PCV internal investigation

	1st (2012.10)	Acquiring images Measuring the air temperature and dose rate Measuring the water level and temperature Sampling stagnant water Installing permanent monitoring instrumentation					
Investigations inside the PCV	2nd (2015.4)	Confirming the status of the PCV 1st floor - Acquiring images - Measuring the air temperature and dose rate - Replacing permanent monitoring instrumentation					
	3rd (2017.3)	Confirming the status of the PCV 1st basement floor - Acquiring images - Measuring the dose rate - Sampling deposit - Replacing permanent monitoring instrumentation					
Leakage points from PCV	- PCV vent pipe vacuum break line bellows (identified in 2014.5) - Sand cushion drain line (identified in 2013.11)						
Evaluation of the location of fuel debris inside the reactor by measurement using muons							

Confirmed that there was no large fuel in the reactor core. (2015.2-5)

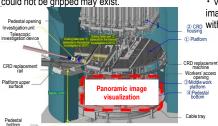
Unit 2 Investigation overview

 In January 2017, a camera was inserted from the PCV penetration to inspect the conditions of the rail on which the robot traveled. The results of a series of investigations confirmed some gratings had fallen and deformed as well as a quantity of deposit inside the pedestal.

 In January 2018, the conditions below the platform inside the pedestal were investigated. Based on the analytical results of images obtained in the investigation, deposits, probably including fuel debris, were found at the bottom of the pedestal. Moreover, multiple parts exceeding the surrounding deposits were also detected. We presumed that there were multiple instances of fuel debris falling.

· In February 2019, an investigation touching the deposits at the bottom of the pedestal and on the platform was conducted and confirmed that the pebble-shaped deposits, etc. could be moved and that hard rock-like deposits that could not be gripped may exist



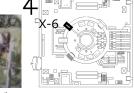


Bottom of the pedestal (after being processed in panoramic image visualization)

<Status inside the PCV (February9)> Unit 2 PCV internal investigation

 In October 2020, as part of work to prepare for the PCV internal investigation and trial retrieval, a contact investigation to study deposits inside the penetration (X-6 penetration) was conducted, which involved inserting a guide pipe incorporating an investigative unit into the penetration. This confirmed that deposits inside the penetration had not deformed and come unstuck. The investigative information obtained will be utilized in the mockup test of the equipment to remove deposits inside the X-6 penetration.





<Work in front of the penetration>

and outer periphery of the reactor core. It was assumed that a significant portion of fuel debris existed at the bottom of RPV. (2016.3-7)

<Unit 2 Reactor Building 1st floor Location of the penetration>

Unit 3 PCV internal investigation

Investigations inside the PCV	1st (2012.1)	- Acquiring images - Measuring the air temperature			- Acquiring images - Measuring the air temperature and dose rate - Measuring the water level and temperature - Sampling stagnant water		
	2nd (2012.3)	- Confirming water surface - Measuring the water temperature - Measuring the dose rate		1st (2015.10-12)			
	3rd (2013.2 – 2014.6)	 Acquiring images - Sampling stagnant water Measuring water level - Installing permanent monitoring instrumentation 		Investigations inside the PCV		 Installing permanent monitoring instrumentation (2015.12) 	
	4th (2017.1-2)	- Acquiring images - Measuring the dose rate - Measuring the air temperature			2nd (2017.7)	Acquiring images Installing permanent monitoring instrumentation	
	5th (2018.1)	- Acquiring images - Measuring the dose rate - Measuring the air temperature - Acquiring images - Measuring the dose rate - Measuring the air temperature Determining characteristics of a portion of deposit				(2017.8)	
	6th (2019.2)			Leakage points from PCV	- Main steam pipe bellows (identified in 2014.5)		
Leakage points from PCV	- No leakage from the torus chamber rooftop	No leakage from any internal/external surfaces of S/C	Evaluation of the location of fuel debris inside the reactor by measurement using muons The evaluation confirmed that no large lump existed in the core area where fuel had been placed and that portion of the fuel debris potentially existed at the bottom of the RPV. (2017.5-9)				
Evaluation of the location of fuel debris inside the reactor by measurement using muons. The existence of high-density materials, which were considered to constitute fuel debris, was confirmed at the bottom of RPV and in the lower part							

Images are provided by the International Research Institute for Nuclear Decommissioning (IRID)

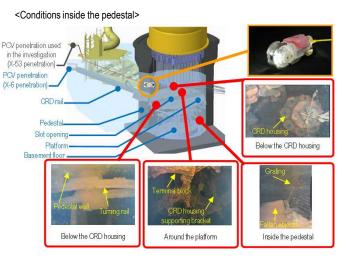
Unit 3 Investigation overview

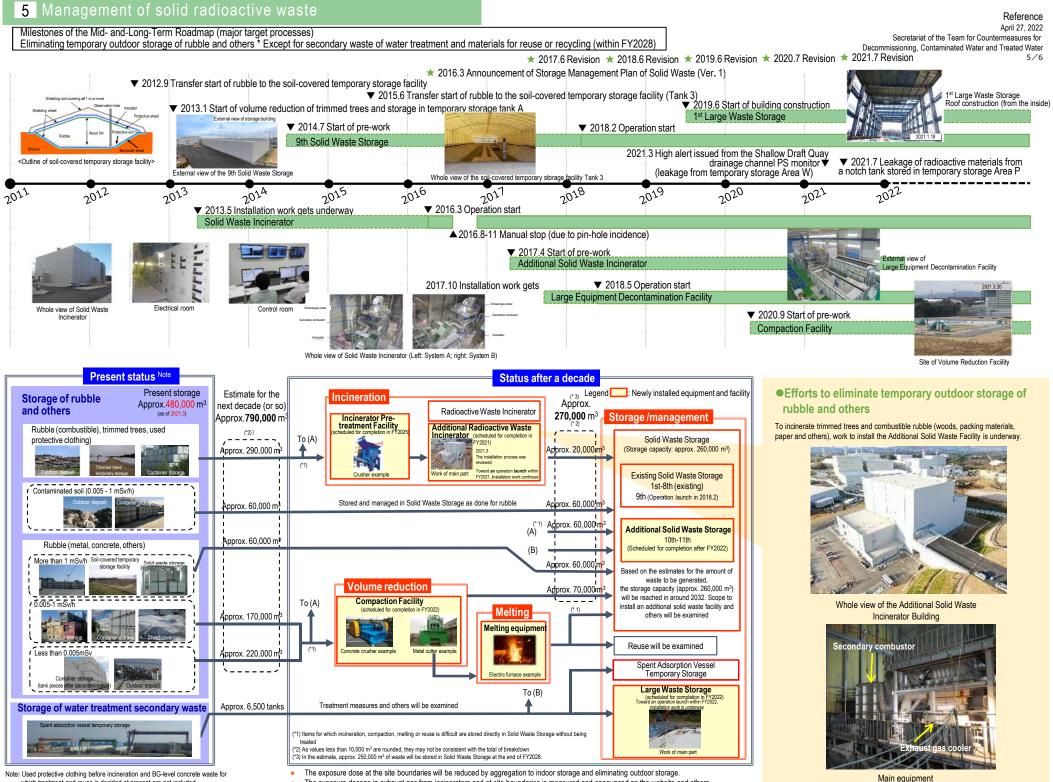
 In October 2014, the conditions of X-53 penetration, which may be under water and which is scheduled for use to investigate the inside of the PCV, was investigated via remote-controlled ultrasonic test equipment. The results showed that the penetration was not under water.

 In October 2015, to confirm the conditions inside the PCV, an investigative device was inserted into the PCV from X-53 penetration to obtain images, data on dosage and temperature and sample stagnant water. No damage to the structure and walls inside the PCV was identified and the water level was almost identical to estimated values. In addition, the dose inside the PCV was confirmed to be lower than in other Units.

• In July 2017, the inside of the PCV was investigated using the underwater ROV (remotely operated underwater vehicle) to inspect the inside of the pedestal. Analysis of the imagery obtained in the investigation identified damage to multiple structures and the supposed core internals

· Videos obtained in the investigation were reproduced in 3D. Based on the reproduced images, the relative positions of the structures, such as the rotating platform slipping off the rail with a portion buried in deposits, were visually understood.



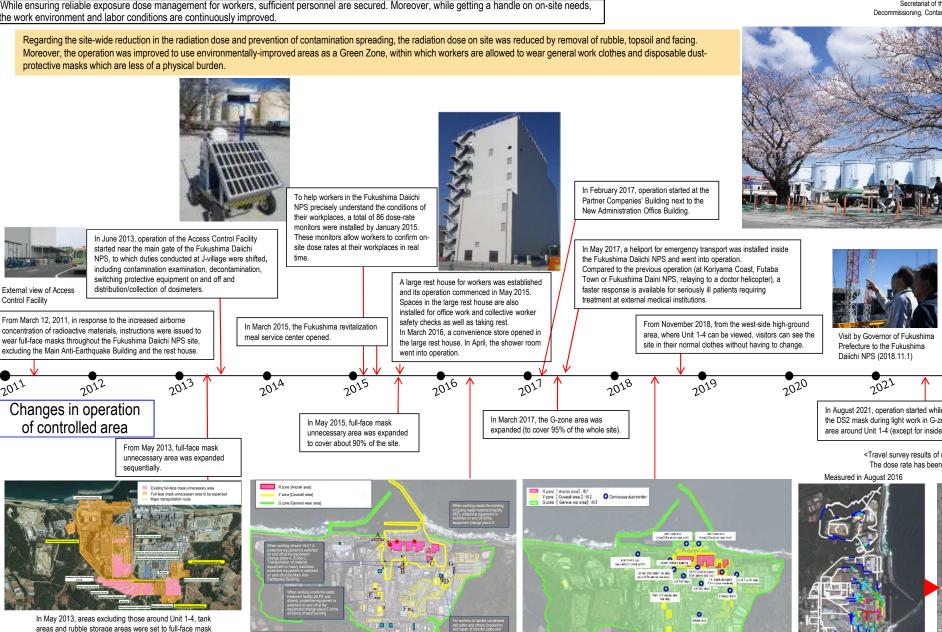


which treatment and reuse is decided at present are not included

The exposure dosage in exhaust gas from incinerators and at site boundaries is measured and announced on the website and others.

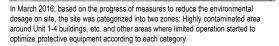
While ensuring reliable exposure dose management for workers, sufficient personnel are secured. Moreover, while getting a handle on on-site needs, the work environment and labor conditions are continuously improved.

Reference April 27, 2022 Secretariat of the Team for Countermeasures for Decommissioning, Contaminated Water and Treated Water 6/6



areas and rubble storage areas were set to full-face mask unnecessary areas.

2011



Provided by Japan Space Imaging Corp., © Digita

R zone equipment change place Y zone equipment change place Existing rest house and others

> In May 2018, within about 96% of the site, workers are allowed to wear light equipment such as general workwear and disposable dust-protective masks.

311 Inseline 13-3 Source (Leigner, 2014 All Tehre (Tablega, exclusion) discussion participants of anomalous later. Sy Yaon with dwarfs with the share and the structure of a structure of a structure of a structure of the structure of a structur





2022

to the Fukushima Daiichi NPS (2021.10.17)

Measured in August 2018

In August 2021, operation started while eliminating the need for the DS2 mask during light work in G-zone outside the protection area around Unit 1-4 (except for inside Units 5 and 6).

> <Travel survey results of major roads within the site> The dose rate has been declining every year.

30~50 20~30